

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A purification system of exhaust gases in an internal combustion engine for purifying the exhaust gases by disposing a reaction furnace capable of reducing noxious components of the exhaust gases in an exhaust pipe of the internal combustion engine, the system comprising: a reactor including a honeycomb carrier having a plurality of carrier cells, on each of which a photocatalyst layer is coated, in the reaction furnace, and a plasma generating means having a plurality of electrode cells and mounted ~~on~~ at an inner end and an outer end of the honeycomb carrier.
2. (Currently Amended) The purification system of claim 1, wherein ~~the honeycomb carrier includes a photocatalyst layer coated on a wall surface of each of the carrier cells,~~ the photocatalyst layer ~~being~~ is activated by a plasma photic source.
3. (Currently Amended) The purification system of claim 1, wherein the honeycomb carrier includes a 3-way catalyst layer coated on a wall surface of each of the carrier cells and [a] the photocatalyst layer is coated on the 3-way catalyst layer, the photocatalyst layer being activated by a plasma photic source.

4. (Currently Amended) The purification system of claim 1, wherein a volume and a number of each of the electrode cells are varied depending upon the variation of that of each of the carrier cells, the carrier cells having 100-900 numbers per the unit area(1 inch x 1 inch).

5. (Original) The purification system of claim 1, wherein each of the electrode cells of the plasma generating means is electrodes including a wire mesh formed by intersecting and arranging wires.

6. (Original) The purification system of claim 1, wherein the plasma generating means is electrodes having a regular length in horizontal direction, a cross section of each of the electrodes being in the form of a honeycomb.

7. (Original) The purification system of claim 1, wherein the plasma generating means is electrodes including a wire mesh roll.

8. (Original) The purification system of claim 1, wherein the plasma generating means is electrodes including a punched plate.

9. (Currently Amended) The purification system of claim 5, wherein the electrode is closely or distantly disposed to each of from the honeycomb carriers carrier.

10. (Currently Amended) The purification system of claim 5, wherein edges of each of the electrode cells are arranged to be positioned at a center of each of the carrier cells.

11. (Currently Amended) The purification system of claim 9, wherein ~~the~~ a distance length of ~~the electrodes~~ each electrode from the honeycomb carrier is 1-40% of the length of ~~each of the honeycomb carriers~~ carrier.

12. (Currently Amended) The purification system of claim 6, wherein each cell of the electrode ~~cells of each of the honeycomb carriers include~~ includes a 3-way catalyst layer coated on a surface thereof.

13. (Original) The purification system of claim 1, further including a plurality of reactors in the reaction furnace.

14. (Currently Amended) The purification system of claim 13, wherein one electrode ~~comprises~~ includes a wire mesh and is distinctly disposed between the ~~honeycomb carriers~~ reactors, while the other electrode ~~comprises~~ includes a wire mesh or a punched plate and is closely disposed to at the outer end ~~ends~~ of ~~each of the honeycomb carriers~~ the reactors.

15. (Currently Amended) The purification system of claim 13, wherein one electrode ~~comprises~~ includes a wire mesh roll and is distinctly disposed between the ~~honeycomb carriers~~ reactors, while the other electrode ~~comprises~~ includes a wire mesh or a punched plate and is closely disposed to at the outer end ~~ends~~ of ~~each of the honeycomb carriers~~ the reactors.

16-27. (Cancelled)